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LIST OF AMERICAN FOREIGN ASSOCIATES OF THE ROYAL ASTRONOMICAL SOCIETY.

The first American who was elected one of the fifty Foreign Associates of the Royal Astronomical Society (founded in 1820) was WILLIAM CRANCH BOND, who was chosen in 1849. Following is a complete list:

1849. WILLIAM C. BOND.	1872. LEWIS M. RUTHERFURD.
1850. BENJAMIN PEIRCE.	— CHARLES A. YOUNG.
— ALEX. D. BACHE.	1876. GEORGE W. HILL.
— O. M. MITCHEL.	1879. ASAPH HALL.
— SEARS C. WALKER.	— C. H. F. PETERS.
1855. F. F. E. BRUENNOW.	1881. EDWARD C. PICKERING.
— MATTHEW F. MAURY.	1883. SAMUEL P. LANGLEY.
— BENJAMIN A. GOULD.	1884. EDWARD S. HOLDEN.
1863. GEORGE P. BOND.	1889. SETH C. CHANDLER.
1866. TRUMAN H. SAFFORD.	1890. LEWIS BOSS.
1872. SIMON NEWCOMB.	1892. WILLIAM L. ELKIN.
— HUBERT A. NEWTON.	1894. ALBERT A. MICHELSON.

LIST OF AMERICANS WHO HAVE RECEIVED THE MEDAL OF THE ROYAL ASTRONOMICAL SOCIETY.

Since the year 1823, the Royal Astronomical Society has given a gold medal for services to science. The first American to receive this medal was GEORGE PHILLIPS BOND. The medal has been awarded to the following Americans:

1865. GEORGE P. BOND.	1887. GEORGE W. HILL.
1874. SIMON NEWCOMB.	1894. SHERBURNE W. BURNHAM.
1879. ASAPH HALL.	1896. SETH C. CHANDLER.
1883. BENJAMIN A. GOULD.	1897. EDWARD E. BARNARD.
1886. EDWARD C. PICKERING.	

EARTHQUAKE AT OAKLAND, JANUARY 17, 1897.

On January 17, 1897, at 1^h 11^m 11^s P. M., P. S. T., two sharp shocks were observed, about one second apart. The time given is for the second shock, and is believed to be correct within a second. In half an hour my watch was compared with W. U. time, and the correction applied to the observed time.

The first shock seemed heavier than the second, and both suggested an explosion rather than an earthquake. An examination of the country in the direction of the powder mills was made immediately from the house-top with a glass, but no smoke or

other evidences of an explosion were visible. A heavy rumbling was noticed just preceding the shocks, and the house creaked. The windows on the north side of the house seemed to rattle before and louder than those on the opposite side. The chandelier shook, and as it came to rest the vibrations appeared to be north and south, approximately. A. H. BABCOCK.

OAKLAND, Cal., January 17, 1897.

ELLIPTIC ELEMENTS OF COMET *g*, 1896, (PERRINE), BY
W. J. HUSSEY AND C. D. PERRINE.

From Mount Hamilton observations of December 8th, December 20th, and January 5th, we have computed the following elements of this comet:

$$\begin{aligned} &\text{Epoch, 1896, December 8.5, Gr. M. T.} \\ &\begin{array}{rcl} M = & 2^{\circ} & 3' & 9''.5 \\ \Omega = & 246 & 30 & 22.1 \\ \omega = & 163 & 51 & 41.5 \\ \pi = & 50 & 22 & 3.6 \\ i = & 13 & 45 & 19.7 \end{array} \left. \vphantom{\begin{array}{rcl} M = \\ \Omega = \\ \omega = \\ \pi = \\ i = \end{array}} \right\} \text{Mean Ecliptic, 1897.0} \\ &\log \epsilon = 9.836649 \\ &\log a = 0.549565 \\ &\log \mu = 2.725660 \\ &\text{Period} = 6.67 \text{ years.} \end{aligned}$$

With the exception of ω or π , these elements closely resemble those of *BIELA'S* Comet at its last apparition in 1852.

MOUNT HAMILTON, January 14, 1897.

OBSERVATIONS OF THE COMPANION TO *PROCYON*, AND OF
THE COMPANION TO *SIRIUS*, BY J. M. SCHAEBERLE.

Measures of the Companion to Procyon.

		$\overset{\circ}{p}$	$\overset{''}{s}$	wt.
1896.	November 13.	$p = 318.8$	$s = 4.58$	3
	November 14.	320.4	4.58	2
	December 19.	319.3	4.89	1
1897.	January 10.	322.3	4.62	3

Measures of the Companion to Sirius.

1896.	October 28.	188.3	3.65	1
	October 30.	190.0	3.65	3
	November 6.	188.3	3.85	3
1897.	January 10.	189.4	3.72	5

HONOR CONFERRED ON DR. LEWIS, SWIFT.

A press-telegram of January 5th notifies that the medal founded by Mrs. HANNAH JACKSON (*née* GWILT) has been conferred by the Royal Astronomical Society on Dr. SWIFT, Director of the Lowe Observatory, "in recognition of his services to the cause of science in the discovery of comets, etc."

THE LADD OBSERVATORY (PROVIDENCE, R. I.)

During the year's leave of absence of the Director of the Ladd Observatory. (Professor UPTON), which is to be spent at the Arequipa station of the Harvard College Observatory, his place is to be filled by Mr. F. W. VERY, who has resigned the position at the Allegheny Observatory which he has occupied for so many years.

MEASURES OF THE COMPANION TO *PROCYON*.

I have secured three measures with the thirty-six-inch refractor of the companion to *Procyon* discovered by Professor SCHAEBERLE. The mean is:

1896.98 321°.0 4".84

R. G. AITKEN.

January 19, 1897.

ERRATUM IN *PUBLICATIONS* A. S. P., No. 53.

Volume VIII, No. 53, page 311, line 9, *for* SCHIAPARELLI
read SCHAEBERLE. C. A. Y.

ASTRONOMICAL TELEGRAMS. (*Translation.*)

Lick Observatory, Dec. 9, 1896.

To Harvard College Observatory }
and Students' Observatory: } (Sent 10 A. M.)

A comet was discovered by PERRINE, December 8, 20^h 29^m 48^s G. M. T.; R. A. 0^h 52^m 26^s.7, Decl. + 6° 24' 52". Daily motion R. A. + 7^m, Decl. — 30'. It is about as bright as a star of eighth magnitude; has a well-defined nucleus and tail.

Lick Observatory, Dec. 9, 1896.

To Harvard College Observatory }
and Students' Observatory: } (Sent 10:45 P. M.)

Comet PERRINE was observed by PERRINE, December 9, 15^h 37^m 50^s G. M. T.; R. A. 0^h 58^m 9^s.9, Decl. + 6° 4' 30".